

Hillsboro Sustainability Task Force: Indicators Assessment Matrix

August 25, 2014 (DRAFT)

Sustainability Focus Area: Resource Conservation

Goals:

- Enhance understanding of the importance of natural assets and ecosystem services
- Protect and enhance existing environmental assets (air, land, water, habitat)
- Foster healthy human and wildlife populations

Proposed Indicator	Target/Timeline	Notes	Use?	Data Source	Pilot Project Options
Water Quality and Conservation					
1. # of in-stream miles preserved, upgraded or restored within the Rock Creek and McKay Creek drainages	Net annual increase in # of in-stream miles under riparian cover within the Rock and McKay Creek drainages	Includes permanent conservation areas and restored acreage. Includes urban areas and whole sub-basins.	Y	CWS	<ul style="list-style-type: none"> • Tree planting campaign with Tree For All, Friends of Trees
2. # riparian acres under natural treatment	Net annual increase in # of vegetated riparian acres	Should focus on tributary sub-basins (Tualatin River, Rock Creek, Dawson Creek, Turner Creek, and McKay Creek). Good way to communicate value of eco-system services.	Y	CWS, Metro, City	<ul style="list-style-type: none"> • Flow restoration projects • Golf course eco-certification • Source control of toxics (HHW round ups, out falls and flow sites)
3. % reduction in daily residential water use	40% reduction by 2025 in residential per capita daily water use from base year 2002 level of 97 gallons per capita per day (gpcd).	Factors that promote demand reduction include water pricing, residential density patterns, plumbing codes and education to promote changes in behavior. Increases in demand could occur due to seasonal variations in recent summer weather patterns (generally cooler and more precipitation), climate change, and economic recovery.	Y	Hillsboro Water	<ul style="list-style-type: none"> • ICI project • Installation of smart meters
4. % potable water loss prevented	Maintain annual water system losses below 10%	Industry goal is 10% unaccounted for water. Hillsboro achieved system average of 3% unaccounted for water in 2013. Benchmark achievement requires Water Department commitment to ongoing investment in program for replacement and renewal of pipelines and related infrastructure.	Y	Hillsboro Water	<ul style="list-style-type: none"> • Automated meter installation • Leak surveys • System-wide conveyance line replacement
Land and Habitat Preservation					

5. # acres of habitat land under active habitat management	Net annual increase in # of acres of land under active habitat management		Y	CWS, JBWP, SOLVE, RCS, TRWC, OFW	<ul style="list-style-type: none"> • Intertwine • Tree planting campaign with Tree For All, Friends of Trees
6. # of diverse bird and amphibian species present at key locations	No net decline in species diversity	Use JB data as measure for Hillsboro to start (e.g. waterfowl at JB)	Y	City, CWS, eBird, OFW, JBWP	<ul style="list-style-type: none"> • JBWP birding community, Audubon • Amphibian monitoring
Conservation Education and Stewardship					
7. # residents and/or homeowners participating in some form of natural resource conservation activity or educational programming	Net annual increase in # of participants involved in tree planting, invasive species removal, water conservation, recycling, and wetlands education programs	Combine population served by environmental education with volunteer hours.	Y	Hillsboro Water, CWS, Washington County Recycling, Master Recyclers, JBW	<ul style="list-style-type: none"> • Education programs (e.g. Community Garden Water Wise program) • Rebates (existing, ongoing, new) • Commercial irrigation conservation incentive program • Tree for All
8. # businesses and institutions participating in some form of natural resource conservation activity or educational programming	Net annual increase in # of businesses and institutions adopting and implementing practices for waste prevention, recycling, purchasing, toxics and other areas	Can include RAW, Green Schools and other recognition programs as identified by the HSTF.	Y	Washington County Recycling, Hillsboro School District, Hillsboro Chamber	<ul style="list-style-type: none"> • Sustainability Awards Program • Commercial irrigation conservation incentive program • Recycle at Work Program • EcoBiz program • Green Schools program • City Water conservation programs • Clean Water Services use reduction programs
Air Quality					
9. # of annual days 'Moderate' and 'Unhealthy for Sensitive Groups' particulates and ozone AQI	Decrease # of days Hillsboro exceeds Air Quality Index thresholds annually to zero by 2025. (placeholder for now)	See detailed notes Air station in Hillsboro for particulates Opportunities to partner with DEQ on outreach, wood stove replacements, fleet Toxics should be addressed but much harder to measure	Y	DEQ	<ul style="list-style-type: none"> • Extend burn ban during winter • Backyard burn ban • Education program with state incentives; wood burning is an effective place to focus • Idling reduction campaign • Active transportation programs
10. Commuting patterns – daily in/out migration of Hillsboro workforce	Reduce per capital VMT 20% from 2010 baseline by 2030	This indicator addresses air quality, but also congestion and other livability factors	Y	US Census, ACS, TriMet Eco-Survey (for 100+ employees)	<ul style="list-style-type: none"> • Workforce training • Tele-commute policy advocacy • Diversify housing alternatives • Increase transit options • Promote school district advances